

Amendments to the Specification:

Please replace paragraph 0030 with the following amended paragraph:

[0030] In one implementation, the present invention is implemented using the Solaris® system manufactured by Sun Microsystems. The Solaris® system is an UNIX operating system. In this implementation, the virtual routers [[32]] 22 are created in the user space. Furthermore, one UNIX process is used per virtual router [[32]] 22. Since the UNIX operating system is a time-shared system, it schedules the virtual router processes appropriately thereby minimizing any scheduling problem.